



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

Health Sciences

Undergraduate faculty brochure



2015/16

www.up.ac.za

Message from the Dean

The Faculty of Health Sciences at the University of Pretoria has a long and proud tradition of excellence in the education of healthcare professionals. Our staff of more than 500 full-time and part-time teachers, researchers and clinical practitioners are dedicated role models who excite and inspire our students. We are committed to ensuring that our graduates leave as competent, responsible and caring health professionals.

Quality is at the heart of the Faculty's commitment to a deep culture of teaching and learning. Our curricula and teaching methods are constantly updated to ensure that we keep pace with the demands of a rapidly changing world. High standards and innovative approaches to learning enhance the ability of our graduates to deal with complexity and solve problems. Our teaching venues, laboratories, skills training laboratories, IT facilities, teaching hospitals and clinics are constantly being upgraded. We have responded to national demands for more graduates to meet the healthcare needs of the country by expanding the Health Sciences campus and residences to accommodate increased numbers of students.

We offer our students a comprehensive range of tutoring, mentoring and progress monitoring as well as a student health and counseling service on site. The excellent pass rates for our modules and completion rates of our degrees are further evidence of the commitment and hard work of our students and success of our student support systems. Students in Health Sciences also have opportunities for a full and balanced university experience with access to a wide range of social, sporting, cultural, leadership and community outreach activities.

We look forward to welcoming you as a student to the Faculty of Health Sciences in 2016.



Prof Eric Buch
Dean: Faculty of Health Sciences

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Undergraduate study programmes

Important information on undergraduate study programmes for 2016

• In order to register, NSC/IEB/Cambridge candidates must comply with the minimum requirements for degree studies and with the minimum requirements for the relevant study programme. • **Life Orientation is excluded in the calculation of the APS.** • **Grade 11 results will be used for the conditional admission of prospective students.** • The Grade 12 score must not drop by more than 2 points for the provisional place to be retained. Admission to Health Sciences study programmes is subject to a selection process. • The applications of international candidates who come from countries that have medical schools will not be considered for placement in the MBChB study programme. • For selection purposes the sum of the results in six subjects, including English, Mathematics and Physical Science, is calculated.

University of Pretoria website www.up.ac.za

National Benchmark Test website www.nbt.ac.za

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
	English				Mathematics				Physical Science				
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
MBChB – Bachelor of Medicine and Surgery [6 years] Closing dates: SA – 31 May Non-SA – 31 May	5	3	C	C	5	3	C	C	5	3	C	C	35
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: General medical practitioners, specialists (after postgraduate training)													
BChD – Bachelor of Dentistry [5 years] Closing dates: SA – 31 May Non-SA – 31 May	5	3	C	C	5	3	C	C	5	3	C	C	35
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: Dentists, specialists, academics and researchers													
BOccTher – Bachelor of Occupational Therapy [4 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D	30
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: Occupational therapists, academics and researchers													
BPhysT – Bachelor of Physiotherapy [4 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D	30
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: Physiotherapists, academics and researchers													
BCur – Bachelor of Nursing Science [4 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	-				-				28
Selection is based on academic merit, the NBT, the Value-added Questionnaire and an interview. Careers: General nursing, psychiatric nursing, midwifery and community nursing													
BRad – Bachelor of Radiography [3 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D	25
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: Radiographers, academics and researchers													
BDietetics – Bachelor of Dietetics [4 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D	25
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Career: Dieticians													

Undergraduate study programmes

Study programme Duration Closing dates Careers	Minimum requirements for 2016													APS
	Achievement level													
	English				Mathematics				Physical Science					
	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level	NSC/ IEB	HIGCSE	AS- Level	A- Level		
BClinical Medical Practice – Bachelor of Clinical Medical Practice [3 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D					-	25
Selection is based on academic merit and the Biographical Information Form. Careers: Clinical associates, academics and researchers														
BOH – Bachelor of Oral Hygiene [3 years] Closing dates: SA – 31 May Non-SA – 31 May	4	3	D	D	4	3	D	D	4	3	D	D		25
Selection is based on academic merit and the NBT. Career: Oral hygienists														
Study programme Duration Closing dates Careers	Minimum requirements for 2016													
The study programmes below are only for registered nurses who have already obtained a nursing qualification.														
BCur(I et A) (Nursing Education) [3 years] Closing dates: SA – 30 November Non-SA – 30 November	Registration as a nurse with two years' experience Please note that Grade 12 learners cannot apply for these study programmes.													
Selection is based on academic merit, experience in the workplace, compliance with the relevant admission requirements and the approval of the applicant's employer. Careers: Nurses, lecturers and hospital administrators														
BCur(I et A) (Nursing Management) [3 years] Closing dates: SA – 30 November Non-SA – 30 November	Registration as a midwife or accoucheur Please note that Grade 12 learners cannot apply for these study programmes.													
Selection is based on academic merit, experience in the workplace, compliance with the relevant admission requirements and the approval of the applicant's employer. Careers: Nurses, lecturers and hospital administrators														
BCur(I et A) (Community Nursing) [3 years] Closing dates: SA – 30 November Non-SA – 30 November	Registration as a midwife or accoucheur Please note that Grade 12 learners cannot apply for these study programmes.													
Selection is based on academic merit, experience in the workplace, compliance with the relevant admission requirements and the approval of the applicant's employer. Careers: Nurses, lecturers and hospital administrators														
BCur(I et A) (Clinical Nursing: Critical Care, Trauma, Paediatric Nursing, Neonatology, Advanced Midwifery and Neonatology) [3 years] Closing dates: SA – 30 November Non-SA – 30 November	Registration as a midwife or accoucheur Please note that Grade 12 learners cannot apply for these study programmes.													
Selection is based on academic merit, experience in the workplace, compliance with the relevant admission requirements and the approval of the applicant's employer. Careers: Nurses, lecturers and hospital administrators														

Undergraduate study programmes/ Faculty highlights

Study programme Duration Closing dates Careers	Minimum requirements for 2016												APS
	Achievement level												
	English				Mathematics				Physical Science or Life Sciences				
	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
BSportSci – Bachelor of Sport Science ▪ Sport Science [3 years] ▪ Biokinetics [4 years] Closing dates: SA – 31 May Non-SA – 31 May	5	3	C	C	5	3	C	C	5	3	C	C	30
Selection is based on academic merit, the NBT and the Value-added Questionnaire. Careers: Sport Science research and teaching, biokinetics and the sport and exercise industry													
Higher Certificate in Sport Science [HCert (Sport Science)] [1 year] Closing dates: SA – 31 July Non-SA – 31 July									Afrikaans or English				APS
								NSC/IEB	HIGCSE	AS-Level	A-Level		
								4	3	D	D	15	
Selection is based on academic merit and Grade 12 sporting achievements. Students who have obtained an NSC without endorsement and have an APS of at least 15 and wish to be considered for admission must write the NBT and apply for Senate discretionary admission. Please take note that places for the Higher Certificate in Sport Science are preferentially offered to applicants who are nominated by one of the official UP sports clubs. Careers: Sports coaching, sports and exercise industry													

Faculty highlights

The Faculty of Health Sciences is one of the largest health sciences faculties in South Africa and has established itself as an outstanding faculty in terms of research and clinical service.

The Faculty is the host of:

- two South African Medical Research Council Units on Inflammation and Immunity and on Maternal and Infant Healthcare Strategies;
- the Rand Water Chair in Public Health and Water;
- the UP Institute for Cellular and Molecular Medicine;
- four university research centres for Forensic Anthropology; Applied Morphology; Comprehensive Physical Rehabilitation and the UP Centre for Sustainable Malaria Control; and
- a research unit working on Environmental Chemical Pollution and Health.

The Faculty was awarded one of two prestigious University Flagship Project research grants from the Medical Research Council (MRC) to support clinical research. The South African Executive Leadership Programme in Health is a partnership between UP and the universities of Fort Hare and Harvard which provides executive-level training and support to build the capacity of leaders and managers who drive health system transformation in South Africa.

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General overview/School of Medicine

General overview

As an international role-player focusing on healthcare in Africa, the vision of the Faculty of Health Sciences of the University of Pretoria is to maintain health standards through quality education, research and community service. Since its inception, it has grown to be one of the largest health training institutions in the country and boasts an undergraduate and postgraduate student corps of over 6 000.

The lecturers and personnel of the Faculty provide appropriate professional undergraduate training for doctors, clinical associates, dentists, oral hygienists, dieticians, nurses, occupational therapists, biokineticists, physiotherapists and radiographers as well as sports science and numerous post graduate qualifications. The curricula are updated on a regular basis in accordance with changes in health education methodology globally and in South Africa.

Community-based education is an important and integral part of all the programmes. The Faculty ensures that students are trained as part of a multidisciplinary team in tertiary and secondary health facilities. Students are also exposed to primary healthcare in rural and historically disadvantaged areas of South Africa. Therefore the Faculty of Health Sciences equips its students with the necessary knowledge, professional attitudes and skills to bring hope and a better quality of life to communities. With its unique curricula for the different medical, dental and healthcare fields of study, graduates can make a difference in other people's lives.

Students who join this Faculty will be part of a new generation of health professionals. The Faculty's training is outcomes-based and problem-orientated – a unique way of looking at patients and their health.

Admission

In addition to meeting the minimum subject and all other requirements that are shown in this brochure, candidates in Grade 12 must apply for preliminary admission to the Faculty on the basis of their final Grade 11 results. The final Grade 11 average and results of the National Benchmark Test (NBT) are considered for provisional admission. To retain selection, the candidate's APS at the end of Grade 12 should not fall more than two points in comparison with the Grade 11 score.

National Benchmark Test (NBT)

The NBT is compulsory for all school leavers who apply for admission to any field of study in the Faculty of Health Sciences.

The NBT provides additional information about a student's performance in three core domain areas: academic literacy and quantitative literacy (one three-hour test) as well as mathematics (one three-hour test). The mathematics test is also known as the Cognitive Mathematical Proficiency (CAMP) test and it tests a learner's ability related to mathematical concepts in the NSC Mathematics Paper I and II. Prospective students will write two tests, but obtain three scores.

Please note: Information on the test will be communicated to the candidate in writing and will also be available on the NBT website (www.nbt.ac.za). The process is as follows:

1. Learners register online, at least four weeks prior to writing the test, at www.nbt.ac.za and choose their own date and venue.

2. Applicants for study programmes in the Faculty of Health Sciences may write the test only once, on one of the dates that will be communicated to prospective students by the Faculty.
3. The test is valid for applications for study at all South African universities.
4. An administration fee is payable in advance via EasyPay. Learners should bring proof of payment with them on the day they write the test.
5. Applicants write the NBT using their ID numbers.
6. On the day the NBT is written, applicants must report to the venue at 07:30. They should bring their identity document, their student number and their own stationery.
7. Candidates are not permitted to use scientific calculators during the mathematics test.
8. Learners applying for degrees for which Mathematics is a requirement at the University of Pretoria are required to write the AQL plus the mathematics test.
9. Results will be available approximately one month after the test date.
10. Results will be available online to the prospective students and the university (or universities) to which they have applied.

Contact details

Tel +27 (0)21 650 3523
Website www.nbt.ac.za

School of Medicine

MBChB – Bachelor of Medicine and Surgery

To be allowed to register as a doctor (medical practitioner), a student has to obtain the MBChB degree, followed by a two-year internship and one year of community service. In the medical profession, the health of a patient is of vital importance. People who are already ill are treated according to their needs with the aim of restoring them to health again. Apart from this, special programmes are developed to prevent the spread of diseases and/or infections in the community. Promotion of a healthy life style is also an important responsibility of the medical doctor.

The University of Pretoria has taken the lead in South Africa by developing and implementing an internationally comparable, problem-orientated and outcomes-based training programme. The Health Professions Council of South Africa (HPCSA) has accredited the curriculum, and the high standard of training at the University is recognised locally and internationally. There are also exchange agreements between the School of Medicine and similar faculties at universities abroad.

Medicine covers a very wide professional field, but it is not only a profession; it is a calling. That is why prospective students have to be prepared to serve humanity in all its facets. The medical profession demands high ethical standards that have to be applied in practice and makes heavy physical and mental demands on the practitioners.

Selection

A selection process is necessary because many more applications are received than there are places available. High academic standards, versatility and community involvement are aspects that are taken into account in selection.



‘Why do you want to be a doctor?’ This is the question that every fourth year medical student is asked at some point during their Internal Medicine rotation by the infamous Professor Levay. The point of this exercise, as we have been told by previous generations of students, is that there is no correct answer, and to teach us that until we are practicing doctors, we’ll never really know what medicine is like, but being the type A personalities that we medical students are, futile attempts

at the right answer are made, and this leads to some weird and wacky answers.

I myself made an attempt to answer, so naturally I thought long and hard about why I wanted to be a doctor ... and came up with nothing. Don’t get me wrong, there are a lot of reasons why I want to be a doctor, but that’s just it, there are a lot of reasons. Is it because I want to help people? Because I need to be challenged? Because I got good marks in high school and hated maths so engineering wasn’t an option? The answer, I realised, was all of the above, or at least it was when I first applied to study medicine. The truth is that my answer has changed so much over the years that I don’t exactly know why I’m still here. I mean let’s be honest ... medicine is hard! You spend six years studying massive amounts of anatomy, physiology, pathology and pharmacology only to work long hours in a highly stressful, often frustrating, kind of depressing job with little or no margin for error.

I would be lying if I said that these things don’t run through my head every time I have to stay up all night to cram for a test that I couldn’t study for because I was studying for a different one or when I see people from high school who are already qualified and are planning to get married next spring. I am glad however, that on these occasions of doubt where I re-evaluate my life choices, I decided to power through because when I’m in the ward and I get a drip into a patient with veins that are difficult to find on the first try, or I check on a baby born 20 minutes ago and realise that I’m one of the first people to ever hold her or when I’m in an interesting lecture about the differential diagnoses of genital discharges and realise that the engineers are probably in a lecture called quantitative algorithms in statistical analysis I feel awed and privileged and very glad that I sent my application to the University of Pretoria because in those moments there’s nowhere in the world I’d rather be ... except maybe Hogwarts.

Shaylee Kirsten: MBChB – Bachelor of Medicine and Surgery

School of Medicine

Selection is based on academic merit, the NBT and a Value-added Questionnaire. For final selection, certain minimum achievement levels are required (refer to the minimum requirements on page 1) in accordance with the selection procedure. There are two basic categories for selection. The first category is for school-leavers, and the second is for those with previous exposure as students to tertiary education.

Provisional selection for school-leavers is made on the basis of the final Grade 11 marks, the results of the NBT and the Value-added Questionnaire. A selection list and a waiting list are compiled on the basis of academic merit. Candidates are provisionally selected strictly according to the merit list, and any places that become vacant are filled from the waiting list.

After the final examination for Grade 12, the provisional selection results are confirmed in respect of those applicants who have met the academic standards and criteria. The final 10% (or more, should additional places have become available) of new first-year students are selected in July of the first year of study on the basis of their achievements in the first semester of the BSc (Biological Sciences) study programme or equivalent. Only new first-year students from the University of Pretoria may apply for this selection.

Further information about the selection process can be obtained from the Faculty. **Only 300 students are admitted to the MBChB first-year class annually.**

Duration of the study programme

- **Year 1 to the middle of year 5**
Theoretical, practical and clinical training in the medical disciplines.
- **Second half of year 5 and year 6**
Student internship, during which all the clinical training takes place around patients in hospitals and clinics.

After this, there are two years of internship: clinical service under supervision in accredited hospitals throughout the country, and a compulsory year of community service. These three years are not part of the university training.

- **Community engagement**
The curriculum was compiled from the viewpoint that training should take place through service delivery. In this context, the Faculty provides a comprehensive service to the broader community through several outreach programmes. Students are already involved in these programmes during their undergraduate studies. The Daspoort Polyclinic in Pretoria is an example of a place that serves as a service training platform where the students can work.
- **Research**
Advances in medical science depend on active research in the various fields of specialisation. This is why undergraduate and postgraduate students are trained in a research environment which promotes an enquiry-based approach to learning and skills for carrying out research.



Applying to study to become a clinical associate was one of the best decisions I have made: becoming a pioneer in an evolving profession in the medical field, helping my fellow South Africans and at the same time making a profoundly positive impact in our healthcare system.

The three-year journey that I took was not the easiest and most certainly overwhelming, but definitely very interesting and eye opening. Studying BCMP requires a lot of self-confidence, self-discipline and hard work, things one quickly

realise in your first year of study. Having all these qualities as a student will reflect when one becomes a qualified individual.

I am very grateful for the knowledge that I have acquired in my three years of study. This is knowledge that I will use throughout my journey in our healthcare system. At the end of the day one quickly realises that a clinical associate is another pivotal instrument that is being used to improve the function of this big machine called our South African healthcare system.

Vanessa Khoza: BClinical Medical Practice – Bachelor of Clinical Medical Practice

School of Medicine

Career opportunities

The study programme allows graduates to register as medical practitioners once they have completed their internship and community service (currently two years and one year respectively). After that, they may practise as general practitioners (medical doctors) in hospitals or in private general practice, do research, and/or teach undergraduates. Further postgraduate study is necessary to become a specialist. Specialists can work in hospitals and/or private practice or follow careers in academic medicine. This involves clinical practice, teaching and research.

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BClinical Medical Practice – Bachelor of Clinical Medical Practice

To register as a clinical associate with the Health Professions Council of South Africa (HPCSA), a student has to obtain the Bachelor of Clinical Medical Practice (BClinical Medical Practice) degree.

A clinical associate is a professional member of the healthcare team with the necessary knowledge, skills and attitude to function effectively in the district health system in South Africa.

Clinical associates work under the supervision of a qualified medical practitioner, often functioning within the Department of Family Medicine. Teamwork and communication skills are critical and clinical associates need good clinical skills to manage common ailments and diseases.

Clinical associates are able to provide any medical service delegated to them by the supervising registered medical practitioner if such service forms part of the education, training and experience of the clinical associate. Clinical associates are therefore considered to be the agents of their supervising doctors in the performance of all practice-related activities, including the requisition of diagnostic, therapeutic and other medical services.

Clinical associates can work as a member of the healthcare team in district healthcare services. Potential employers include public healthcare institutions, the South African Military Health Service and non-governmental organisations.

Duration of the study programme

The BClinical Medical Practice qualification is a three-year full-time degree course. The curriculum has been compiled on the basis that training should take place through service delivery. The training is practical, problem-orientated and can be summarised as follows:

- **Year 1**
Theoretical, practical and clinical training takes place mostly at the Prinshof Campus of the University. The focus is on obtaining patients' medical history, mastering physical examination techniques and basic investigative studies. Students are placed in various hospitals in Gauteng.

- **Year 2 and 3**

Clinical practicals are based in various hospitals in Gauteng, Mpumalanga and other provinces. Clinical skills are gained through service learning in hospitals, clinics and community contexts.

Selection

Selection is based on academic merit and the Biographical Information Form. Physical Science and Life Sciences are not compulsory subjects, but will be an advantage for selection purposes.

Contact information

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BSportSci – Bachelor of Sport Science

Admission requirements

Selection is based on academic merit, using a combination of the the Admission Point Score (APS) and the National Benchmark Test (NBT) as well as a Value-Added Questionnaire (VAQ). For final selection, certain minimum achievement levels are required (refer to the minimum requirements on page 1). In the case of candidates who are still at school, the Grade 11 final examination marks are used as the basis for provisional selection. One hundred (100) students are selected on academic merit for the first year of study.

Medium of instruction

Both English and Afrikaans students are accommodated as far as possible.

What does the package entail?

The Division of Biokinetics and Sport Sciences studies '*man in motion*', and the BSportSci degree is presented as a full-time intramural package. This degree focuses on the study of human movement, biokinetics, and sport from the perspective of the natural sciences. This three year full-time programme comprises two specialist options, namely Biokinetics and Sport Science. The first two years of study will comprise a generic curriculum followed by all BSportSci students that includes basic and applied sciences of the human body.

At the end of the second year, selection will take place on academic merit and students will branch into either the Sport Science curriculum or the Biokinetics curriculum up until the completion of their third year of studies. The first year of internship for the Biokinetics students will run concurrently with their third year of studies. Then the Biokinetics students will proceed with the BScHons in Biokinetics running concurrently with the second year of their internship. The four-year Biokinetics programme is in line with the new regulations of the Health Professions Council of South Africa (HPCSA) for Biokinetics training which will be followed by all universities that offer this programme. The Sport Science students have the option of proceeding with the BScHons in Sport Science, enrol and complete the Post Graduate Certificate in Education (PGCE) or start working in the sporting industry.

What can students do with this qualification?

Exercise, sport, health and recreation each constitute a major industry that contributes to the economy in various ways.

School of Medicine

This package enables students to initiate entrepreneurial opportunities or enter a career in the biokinetic, sport, and/or health and fitness industries. The qualification leads to specialisation in study towards biokinetics or sport science after the second year.

Biokinetics is a registered health profession concerned with the improvement of health and wellbeing through the scientific application of exercise assessment and the prescription of physical activity. Sufferers of acute and chronic orthopaedic, neurological, metabolic, cardiovascular and other conditions, as well as sedentary, overweight/obese individuals, both old and young, and also healthy people can all benefit from the preventive and rehabilitative effects of safe and effective exercise prescription. This qualification equips students to qualify and register with the HPCSA as a biokineticist. For sports scientists this qualification equips them to enter the professional sport and/or exercise industry.

Sport Science refers to the field responsible for the application of scientific principles in sport with the implicit aim of improving performance. This may include athlete assessment, profiling, monitoring and conditioning elements, and may involve specialist applications in the analysis, preparation, recovery, and competition spheres of sport. The past decade or so has seen the foundation of these elements based firmly in precise and rigorous scientific methodologies in the training of sports scientists globally. Other career opportunities include sports scientist for an athlete or team, fitness instructor of a sports team, operator in sport tourism, team

manager or agent for athletes, technical advisor, gymnasium manager, sports journalist, and sports organiser at a school.

This degree affords both professions the theoretical knowledge and practical preparation and development for the specific demands of a biokineticist or sports scientist.

Community service

An informed community is a healthy community. Consequently, much time is spent in instructing and educating patients and those who care for them. An example of this is the training of good posture in adults and children in order to prevent subsequent conditions such as backache and weak backs and abdominal muscles. Patients are also taught to monitor their own health and to be physically active. Likewise, the early instruction of athletes and coaches regarding fundamental health and sport imperatives lays the base for healthy and prepared young sports men and women of the future. Community-based training is an integral part of both the Sport Science and Biokinetics curricula. Students will be taught how to interact with various communities to educate and provide opportunities to improve life through movement and sport. Community programmes articulate with the course material ensuring that research, teaching and community responsibility are addressed through these programmes.

Research

A proactive research environment at both undergraduate and postgraduate level in the Department is encouraged. Research is the cornerstone essential for the development



I am a fifth (final) year biokinetics honours student. I obtained my bachelor's degree in sport sciences in 2012 as well as my BA HMS Honours in sport sciences in 2013. My sport sciences degrees were structured in a way that allowed me the opportunity to pursue my elite gymnastics career whilst gaining academic qualifications as well as four years of experience in the professional sporting industry. My passion lies within the field of biokinetics and rehabilitation through the use of exercise.

This year has provided me with a foundation for furthering my career within this field by gaining practical and working experience at the different biokinetics centres we rotate through every month. As the Department of Biokinetics and Sports Sciences, which moved to the Faculty of Health Sciences in 2014, is situated on one of the biggest sports facilities in the country, we have the opportunity to be involved in the rehabilitation of the general public as well as that of elite athletes. In my first, second, third and fourth years I received achievement bursaries for a year average of higher than 75%. I was also awarded the trophy for the top student in Sport Science in my second and third year, as well as in my honours year. Next year I aim to complete my biokinetics internship and thereafter I will be fully qualified as a registered biokineticist. I aim to encourage life through movement.

Kimberly-Ann van Zyl: BSportSci – Bachelor of Sports Sciences

School of Dentistry

of the profession as it attempts to explore, discover and carefully study unexplained phenomena creating new knowledge and improving biokinetics and sport practices. Students at undergraduate level are already given the opportunity to become acquainted with the theoretical research process through formal teaching as well as the application thereof under the guidance of staff members. This is further developed in the third and fourth year of study where a complete research project is planned and executed developing essential research skills required to successfully pursue master's and doctoral studies.

Postgraduate studies

Obtaining the BSportSci degree could lead to further study at honours, master's and doctoral level in Sport Sciences, or in the case of Biokinetics to study at masters and doctoral level.

Package Organiser

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Higher Certificate in Sport Science [HCert (Sport Science)]

Admission requirements

A National Senior Certificate and complying with the minimum requirements for admission to a certificate programme with an APS of 15 and above). In the case of candidates who are still at school, the Grade 11 final examination marks are used as the basis for provisional selection. One hundred and sixteen (116) students are selected on academic merit (55%) and sporting achievement (45%) for the first year of study.

Medium of instruction

Both English and Afrikaans students are accommodated as far as possible.

What does the package entail?

It is a one year, full-time Higher Certificate in Sport Science but the extended programme allows the student to complete the programme in two years. The programme provides a basis for knowledge and skills development to improve athlete performance by means of physical assessment, exercise and conditioning prescription, and basic research. It aims to develop coaches who can function successfully in an interdisciplinary environment in order to improve athletes' and sports teams' performances using the latest techniques and research. It will therefore strive towards internationally recognised academic excellence, but with local relevance. The programme will create an ideal learning environment incorporating lectures, tutorials, practical sessions, and problem solving. Students will receive teaching and training by leaders in the field of Sport Science and coaching. Students will get the opportunity to work with various sporting codes and athletes of various skill levels.

What can students do with this qualification?

This programme will enable individuals that participate at national and international level in sport to complete a certificate in coaching and sport science whilst being able to continue training and participating in their relevant sport. The aim of the programme will be to foster coaching, administrative and professional skills necessary for fulfilling a career in sports coaching. The programme will strive

towards producing students that are highly qualified to work within an interdisciplinary environment (ie sports club marketing and management, sports coaching, Sport Science, and education) and to develop graduates who will have the expertise to become leaders in this discipline. The programme will not be a pathway to a specialist qualification; however, upon completion, it will provide students wanting to further their studies with the opportunity to apply for admission to the BA (Sport and Leisure Studies), the BEd degree or the Bachelor's degree in Sport Science provided certain academic criteria are met. The programme will create an ideal learning environment in which students will receive the fundamental training in the relevant domains of sports coaching and sport science.

Practical training

This degree will provide flexible learning opportunities and strategies that will include a mix of lectures, tutorials and practical sessions using problem solving, case studies and clinical reasoning. It will provide excellent academic education by leaders in the respective fields of sports coaching and education. The Higher Certificate in Sport Science will therefore strive towards internationally recognised academic excellence, but with local relevance. Additionally, the programme will be in synergy with the mission of the University regarding a tertiary institute of choice for advanced level sports performance, which will strive to improve sports coaching and sport science at a development level in South Africa.

Undergraduate studies

After obtaining the Higher Certificate in Sport Science students can apply to enter the BA (Sport and Leisure Studies), the BEd degree or the Bachelor's degree in Sport Science with the provision that they have achieved above 60% in all their academic modules.

Package Organiser

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School of Dentistry

BChD – Bachelor of Dentistry

The School of Dentistry at the University of Pretoria enjoys wide national and international recognition for the quality of its training, research, patient care and its involvement in community-based projects. Since 1950, the School of Dentistry (formerly the Faculty of Dentistry) has been producing graduates who make a decisive contribution to the practice of dentistry, health management, statutory councils and academic training, both nationally and internationally.

The typical work day of a dentist is spent diagnosing and treating diseases of the mouth and teeth. This includes the removal or repair of carious teeth, the replacement of absent teeth by means of crown and bridge therapy, and the treatment of diseases of the gums. The dentist is also responsible for surgical intervention in the mouth, the alignment of irregular teeth, alleviation of pain, root canal treatment of teeth, and the planning of dental treatment in cooperation with the patient.



My name is Bulela Vava. I am a final year dentistry student at the University of Pretoria. At the end of five years in a high performance degree course at the University one has plenty to say, but if I had to say only one thing about Dentistry at Tuks, it would revolve around the concept of excellence.

The School of Dentistry at the University prides itself on being a leader in dentistry nationwide

and also a pioneer as an international heavy weight when it comes to oral health research and training.

Coming from the rural backdrop of the Eastern Cape, I had to appreciate the difference in service excellence and teaching that I received within the corridors of the University of Pretoria. Dental school has matured me, and given me all the necessary knowledge and skills to best serve my community yet still remain internationally competent and relevant.

I have come to learn something as well: Dentistry is not a second choice career. To keep up the standards, long hours of sweat are needed, and one paves your way to success by the beating of your heart. It is not for those whose passion wavers to and fro, but for those who have identified themselves as champions of oral health. However like any other profession it is not without its pros and cons, but my last words about dentistry at Tuks are these:

You will be a scientist, an artist and for those who truly reach the highest level of enlightenment within these walls, you will be a human being who has not only learnt to bring smiles to teeth, but smiles back to the souls of those who sit on your chair every day.

Bulela Vava: BChD – Bachelor of Dentistry

School of Dentistry

Dentistry offers many challenges and stimulating opportunities for men and women. With the exclusive aim of rendering high-quality oral healthcare to the patient, the dentist cooperates as a team member with all the other role-players of the oral health team. The total health of the individual forms the basis of the training of each dentist. Dentists should have special characteristics. They should be academically gifted, and dexterity is an indispensable prerequisite.

Selection

Selection is based on academic merit, the NBT and the Value-added Questionnaire. For final selection, students should meet certain minimum requirements (refer to the minimum requirements on page 1).

Description of the study programme

In order to keep pace with the modern requirements of tertiary education, the School of Dentistry follows a curriculum that is problem-based, student-orientated and directed at the community, with vertical and horizontal integration of subjects.

Dentistry is a study programme over five years, followed by one year of compulsory community service.

The first semester of the first year of BChD (Bachelor of Dentistry) and MBChB (Bachelor of Medicine and Surgery) is the same. As early as the second semester of the first year of study, students get first-hand exposure to clinical dentistry.

The list of prescribed modules is set out in the Yearbook of the Faculty of Health Sciences and can be viewed at www.up.ac.za/yearbooks.

Career opportunities

The University of Pretoria, with its proud record of providing a high standard of training for dentists and specialists, produces graduates who render outstanding professional services to the community. There are employment opportunities for dentists in private practice, in the South African National Defence Force, and elsewhere in public hospitals and clinics, healthcare organisations and academic institutions.

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BOH – Bachelor of Oral Hygiene

Oral hygiene entails the maintenance and care of the teeth and gums. The oral hygienist plays an important role in the evaluation, planning, prevention and treatment of diseases of the oral cavity. In this way, a preventative, educational and therapeutic service is rendered to the individual patient and the community.

Oral hygiene is an excellent career choice, especially for those who wish to organise their working days according to their own needs. It is a challenging occupation with a high degree of job satisfaction, security and a good income. Oral hygienists play a very important role in modern society. They are trained to inform people about maintaining good oral hygiene. A large part of their daily activities are dedicated to carrying out preventative treatment procedures. Since oral hygienists deal with people all the time, they must have good interpersonal relationship skills, a spontaneous nature and lots of patience. Above all, they should have excellent communication skills, a sense of responsibility and the ability to tackle challenges.



I am currently in my third and final year of studying oral hygiene as a degree. For me it is hard to believe that the time has gone by so fast. At first, starting off in the skills lab, I didn't know what to expect but with time it has come to be like second nature. Oral hygiene is a very practical degree, starting working on public patients in our second year already. We learn to deal with a diversity of patients from every culture and race as well as able bodied and disabled individuals. There are many great learning opportunities

such as weekly outreach projects as well as other fun days and fundraisers which makes it worthwhile to spend your days at your 'home away from home'. The facilities are of a high standard with up-to-date equipment which takes your learning experiences to another level and the academic staff are highly qualified and offer one-on-one learning opportunities. Here you learn that friends become like family and that prevention is better than cure. I am a proud member of the School of Dentistry of the Faculty of Health Sciences at the University of Pretoria.

Alma Olivier: BOH – Bachelor of Oral Hygiene

School of Healthcare Sciences

Selection

The study programme in oral hygiene is of a high academic standard, and consequently academic merit is of decisive importance for admission. A strict selection process is applied, since only a limited number of students are admitted. Candidates are selected on the basis of their academic performance and the results of the NBT. An applicant must obtain a valid National Senior Certificate endorsed for degree purposes. For final selection, students should meet certain minimum requirements (refer to the minimum requirements on page 2).

Description of the study programme

To keep pace with the modern requirements of tertiary training, the School of Dentistry follows a curriculum that is problem-based, student-orientated and directed at the community, with vertical and horizontal integration of subjects. It is a three-year degree programme in which the student receives training in basic medical and dental subjects. Theory and practice are integrated from the first year of study. The first half of the first year is dedicated to training in the preclinical training ward. Thereafter, students treat patients in the well-equipped Oral and Dental Hospital. The work includes motivation of the patient, oral hygiene instruction, polishing and scaling of teeth, fluoride application and the application of fissure sealing agents to teeth.

In addition to his or her role as student, the aspirant oral hygienist has a variety of other tasks to perform. These include taking part in National Dental Health Week and research projects, as well as visits to nursery schools and special schools for oral care maintenance. Community service includes visits to the Steve Biko Academic Hospital's spinal unit and children's wards, and a visit to the Phelophepa Health Train, from which a dental service is rendered to the community.

Career opportunities

An oral hygienist may be employed in a general dental practice. Oral hygienists are also increasingly employed by specialists such as orthodontists, periodontists and prosthodontists. Further employment possibilities are with organisations such as the South African National Defence Force or elsewhere in the public service. Individuals who are interested in academic careers may join tertiary education institutions as lecturers. Other possible employers are municipal clinics and healthcare organisations.

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School of Healthcare Sciences

Clinical training in the School of Healthcare Sciences

Clinical training takes place in hospitals, clinics and in the community. Clinical training does have some risks due to the exposure to infection and the crime situation in the country. The University of Pretoria has, however, instituted measures for students' protection and will supply them with particular instructions and criteria in this regard. Clinical training necessitates that students should have their own transport, and they cannot be compensated for all travel expenses.



As a third year occupational therapy student; I can without a doubt say that I have chosen the right career. Occupational therapy is an exciting profession that enables me to make a difference in people's lives by teaching them necessary skills for the job of life. The Occupational therapy department provides a supportive environment for the appropriate stimulation of the minds of future therapists. The department takes an experiential approach on learning; which allows us to build on our theoretical knowledge through practical experience. Studying occupational therapy challenges me not just on an intellectual level, but holistically as a human being. It is not just 'fun and games'; but requires hard work and dedication. The occupational therapy course also allows for a wide range of possible fields in which to specialise. On completion of my degree I would like to work as a paediatric occupational therapist. Studying occupational therapy is a journey – the journey is the reward.

Sajida Mitha: BOccTher – Bachelor of Occupational Therapy

School of Healthcare Sciences

BOccTher – Bachelor of Occupational Therapy

Occupational therapy is a healthcare occupation in which people with physical or mental diseases or disabilities are treated by means of participation in everyday activities. The occupational therapist assists the client to function as normally as possible in society. The occupational therapist is trained to apply specific techniques and procedures in a scientific manner, so that a client's remaining abilities are developed maximally, thus enabling the client to lead a meaningful and independent life. Occupational therapy is also applied to persons with developmental delays, learning disabilities or psychosocial dysfunctions.

Occupational therapy is a stimulating career that offers ever-present challenges. It requires an adaptable, intelligent and practical person with good problem-solving and managerial skills. A successful occupational therapist has good interpersonal relations and can approach divergent situations in a resourceful manner. Qualified occupational therapists are registered with the Health Professions Council of South Africa (HPCSA). The Professional Board for Occupational Therapy, Medical Orthotics/Prosthetics and Arts Therapy regulates the training and work performance standards.

Selection

Selection is based on academic merit, the NBT and the Value-added Questionnaire. For final selection, certain minimum achievement levels are required (refer to the minimum requirements on page 1).

Description of the study programme

The occupational therapy study programme of the University of Pretoria is an integrated programme, which means that the basic subjects, such as anatomy or psychology, are applied for various conditions from the beginning in the study programme. A problem-based teaching approach is used. This approach enhances students' confidence and independence. These qualities are important for their work in hospitals or clinics in the community in the present health system.

Curriculum

The curriculum is an integration of human and natural sciences, reflecting the performance of activities by a person during his or her lifetime. Students learn to apply the occupational therapy process to those whose functioning has been affected by developmental delays, neglect, disease, trauma, accidents or ageing.

Learning programme

The study programme entails four years of full-time study and is designed to facilitate active participation by the students. Students do practical work throughout the four years at various hospitals, clinics and institutions, as well as in developing communities.

Research

At undergraduate level, students are given the opportunity to become acquainted with research activities under the guidance of staff members. Postgraduate students conduct research on a range of topics, which vary from the ergonomical design of wheelchairs to the effect of musical activities on patients who are psychiatrically ill. Postgraduate diplomas in Hand Therapy and Vocational Rehabilitation are also presented by the Department of Occupational Therapy at the University of Pretoria.

Career opportunities

Occupational therapists can be employed in various institutions, such as hospitals (including psychiatric hospitals), schools, homes for the aged, welfare organisations, municipal clinics and community organisations. There are employment opportunities in the private sector with insurance companies and private practices. Postgraduate study may be undertaken, leading to a career path in academia as a teacher and researcher.

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BDietetics – Bachelor of Dietetics

Dietetics is a discipline committed to the maintenance and improvement of health through good nutrition. It is based on biological science, physical health science, the human sciences, communication science and management science. Dietitians specialise in human nutrition. They provide advice on the nutrition of healthy and ill individuals in the public and private sector by using appropriate standards of nutritional care.



Studying Dietetics has been a challenging but amazing experience; I have not only learnt about the science of dietetics but have also discovered my strengths. Since we are a small class, it creates a supportive environment that is conducive to studying. Through this experience I have also learnt to be more independent.

Khumbu Dlamini: BDietetics – Bachelor of Dietetics

School of Healthcare Sciences

Dietitians are also responsible for managing food service systems. This is done by providing optimal quality standards for feeding groups, such as the elderly, students, children and hospital patients. Dietitians are involved in developing new food products that have been specifically designed to meet the needs of consumers. They give important input when nutritional products are formulated to enhance the nutritional status of target groups in the community.

Dietitians participate in research to identify the causes and optimal treatment of nutrition-related problems. They plan and implement nutrition programmes and policy developments as part of community development – using the nutrition message to empower and uplift all South Africans. Dietitians provide nutrition education to communities prone to diseases of nutritional excess or shortage, and they have to have extensive knowledge of a community's nutritional status. Dietitians make a difference when it comes to planning special diets for athletes who participate at recreational or professional level.

Selection

The unique selection process used for acceptance means that every dietitian is hand-picked. Selection is based on academic merit, the NBT and the Value-added Questionnaire. For final selection, certain minimum achievement levels are required (refer to the minimum requirements on page 1).

Description of the study programme

The BDietetics is a four-year full-time integrated degree programme and consists of theory and practical training. This is a structured programme for elective training. An outcomes-based and problem-orientated healthcare team approach in a clinical and a community environment is followed. The programme broadly comprises three areas of specialisation within the scope of practice.

Clinical dietetics (medical nutrition therapy) focuses on the nutrition of individuals, either preventative in terms of lifestyle-related diseases, or therapeutic in the treatment of a disease. For example, a person with diabetes will have a specific diet that will be designed and monitored by the dietitian.

Community-based dietetics has the goal of educating and training communities or groups of people on how to improve their health through nutrition. A good example of this is where communities are trained in respect of the types of food they would need to maintain a healthy lifestyle. Should they not have access to those foods, they are trained in how to acquire the necessary nutrition, for example, by growing the right types of vegetables.

The management of large-scale food service units, where the nutritional needs of clients or patients are taken into consideration when planning normal and therapeutic diets of a high quality, is studied. In order to deliver this professional service, scientific knowledge of the following is necessary:

- foods and nutrients
- the nutritional needs of ill and healthy people
- the biochemical and physiological foundations of nutrition
- the role of nutrition in the cause, progress and management of diseases
- nutrition education and counselling

After completing the degree, one year of compulsory community service is required. Graduates must register with the Health Professions Council of South Africa (HPCSA), and the degree is recognised internationally.

Career opportunities

Dietitians who graduate from the University of Pretoria receive integrated theoretical and practical training in biochemistry, physiology, pharmacology, psychology, communication and counselling, food science, human nutrition, medical nutritional therapy and food service system management. Dietitians are able to work with people because of the holistic training received in the biological, health and human sciences. They are also qualified to function independently because of the problem-solving skills acquired during academic and practical training, and will be able to develop healthcare programmes in communities.

Dietitians are skilled in the use of technology and research in the field of nutrition. They can also work effectively as members of a multidisciplinary healthcare team. They are experienced in reading, interpreting and writing scientific and popular reading matter for the layperson about human nutrition.

When dietitians are registered with the HPCSA, they can provide nutrition counselling and dietary management in hospitals and clinics as members of healthcare teams. Preventative nutritional care can also be provided to the public by means of nutrition education about healthy eating habits and the prevention of nutrition-related diseases. Particular challenges exist in the context of primary healthcare where the dietitian is involved at grass-roots level.

The Department of Health acts as a major employer in this regard. Dietitians in private practice provide counselling in nutrition to patients referred by medical doctors. Normal nutrition, such as sports nutrition, also presents exciting opportunities for consultation. Dietitians can further offer their expertise to food service units and other private companies, such as the pharmaceutical industry.

A career in dietetics offers opportunities to develop and unfold managerial skills. The food service system dietitian, for example, manages the large-scale food service unit, whereas the experienced clinical dietitian is in charge of the clinical nutrition service offered by a hospital. Quality assurance is important in this regard. Postgraduate study may be undertaken, leading to a career path in academia as a teacher and researcher.

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BPhysT – Bachelor of Physiotherapy

Physiotherapy aims to restore or promote the normal physical functioning of the individual, as well as to rehabilitate persons with injuries and those living with disabilities. Various methods are used to achieve this. Each of these methods will be dealt with during the study programme, based on the outcomes-based, problem-orientated approach to training. Physiotherapy students are exposed to a wide variety of patients and can make a significant contribution to the

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health status of any patient by means of examination and problem-solving skills. Physiotherapists who have qualified at the University of Pretoria are in demand in all sectors of healthcare worldwide.

Selection

Selection is based on academic merit, the NBT and the Value-added Questionnaire. For final selection, certain minimum achievement levels are required (refer to the minimum requirements on page 1). In the case of candidates who are still at school, the Grade 11 final examination marks are used as the basis for provisional selection. In order to retain selection in this category, candidates are required to comply with all the prescribed requirements after the final Grade 12 examination results have become available. Applicants may not drop more than two APS points, as they need to maintain the same academic standard on which they were provisionally selected. Approximately 60 students are selected on academic merit for the first year of study.

Description of the study programme

Physiotherapy is a complementary healthcare profession, and the study programme is completed in four years of full-time study. Students are trained in exercise therapy, electrotherapy, massage therapy, musculoskeletal therapy and the education of patients to restore or promote the normal physical functioning of the individual.

Electrotherapy modalities are used mainly to alleviate pain and swelling and to increase the blood supply in order to influence the pathological processes in the body. Soft tissue such as muscle, skin and scar tissue are mobilised during massage to alleviate pain and muscular spasm, reduce swelling, improve circulation and soften scar tissue. Musculoskeletal therapy is used to treat joint-related problems in the vertebral and peripheral joints. Pulmonary physiotherapy improves lung function.

Programme content

The first four years of study consist of theoretical, practical and clinical training in basic medical sciences and in physiotherapy. An additional community year, which does not form part of the university training, is compulsory.

Exercise therapy includes specialised techniques to strengthen muscles, mobilise stiff joints and facilitate normal movement patterns. Patients are taught coordinated and skilled movement patterns to render them as functional and independent as possible. Principles of treatment are applied to patients with neurological problems, spinal cord injuries, as well as sportsmen.

Community service

An informed community is a healthy community. Consequently, much time is spent in instructing patients and those who care for them. An example of this is the training of good posture in adults and children in order to prevent subsequent conditions such as backache and weak backs and abdominal muscles. Patients are also taught to monitor their own health and to be physically active. Community-based training of undergraduate students takes place in the communities of Mamelodi, Hammanskraal, Daspoort and Eersterust, various homes for the aged in Pretoria, and the Sports Centre of the University of Pretoria.

Research

Students at undergraduate level are already given the opportunity to become acquainted with the research process under the guidance of staff members. Research is essential for the development of the profession. Therefore, a proactive research environment at undergraduate and postgraduate level in the Department enjoys a high priority.



Deciding on a degree that will determine the career you follow for the rest of your life is a very daunting task. It is difficult not to think of the 'what ifs' such as, 'What if I land up bored or hating my job in five years' time?' This is why I feel that physiotherapy is the career for me and many others. Physiotherapy is a career of never-ending ways to rehabilitate and treat patients. Still to this day I am learning more about the ever-evolving prevention, rehabilitation and treatment methods used in physiotherapy. Our physiotherapy department here at the University of Pretoria

strives to ensure that we are well equipped with theoretical knowledge as well as sufficient practice. Our classes are small enough to provide personal interaction with the lectures and each other. This allows us as students to ask questions freely whenever we don't fully understand a concept as well as to learn from each other. Interacting during our practical classes provides a unique platform to form strong friendships and relationships with future colleagues. I am grateful to have this opportunity of being on the journey to entering a career that makes such a difference in so many people's lives.

Meghan Dodds: BPhysT - Bachelor of Physiotherapy

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Career opportunities

Employment opportunities for physiotherapists are available in hospitals, schools for children with special needs, mining clinics, industrial clinics and hospitals. Opportunities also exist in private practices, the South African National Defence Force, homes for the aged, local government bodies (municipal clinics) and sports centres. Postgraduate study may be undertaken, leading to a career path in academia as a teacher and researcher.

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BRad – Bachelor of Radiography

Radiography is a healthcare science occupation that deals with medical diagnostic images. It is one of the rapidly growing occupations in modern healthcare. The University of Pretoria offers an undergraduate degree in Diagnostic Radiography and postgraduate degrees in three professional fields: diagnostics, radiation therapy and nuclear medicine. During training, students are exposed to all facets of healthcare. Training takes place at primary, secondary and tertiary institutions. The Department of Radiography in the Faculty of Health Sciences is one of two departments in South Africa that offer a degree programme in Radiography. Students have the opportunity to interact with healthcare professionals. As members of the healthcare team, they will have a better understanding of a holistic approach to patient care.

Selection

Selection is based on academic merit, the NBT and the Value-added Questionnaire. Other subjects that are useful during the period of study include Life Sciences and Physiology, but these are not compulsory. Prospective students must submit proof of two visits to X-ray departments, one in the public sector and one in the private sector. It is highly recommended that students be exposed to various examinations and procedures performed in departments of radiography, which will assist the applicants in making a sensible career choice.

Description of the study programme

BRad (Diagnostic) is a full-time study programme over three years, followed by one year of compulsory community service.

Programme content

Students follow an academic and a clinical programme. The academic programme covers approximately 28 weeks of the year, during which students attend lectures. Clinical tuition takes place in accordance with academic progress to enable students to assume responsibility for examinations.

The clinical tuition takes place in the radiology departments at Steve Biko Academic Hospital, Kalafong Academic Hospital, Pretoria West Hospital, Mamelodi Hospital, Tshwane District Hospital, as well as certain private radiological practices. A timetable is drawn up for students to ensure that the compulsory clinical experience necessary for them to gain competency in the various examinations and procedures is



My name is Dineo Leballo and I am 20 years of age. I describe myself as ‘a hearty, witty and domineering student radiographer’. Radiography as a course is very exciting and challenging at the same time. It is good to realise how important you are as a member of the healthcare team. As radiographers we are in the first line of service. For example, in accident and emergency situations, we are there with doctors and nurses. There are opportunities to progress in this degree up to the PhD level as well.

My journey through the BRad degree had a number of opportunities, starting with being chosen to speak as one of the senior students at the first-year students’ orientation of 2013 and offer a word of encouragement. I was later elected a class representative, one of which I felt was the greatest achievements. I am currently a member of the radiography house committee (HK) and am heading the marketing portfolio. My profile and leadership positions have shown that I am not just a student but am also an integral part of the department and the university as a whole. Radiography has contributed greatly in building my character and I would like to encourage prospective students to work hard so as to meet the entrance requirements. I am looking forward to seeing more of you take up radiography as a career. As a radiographer, I take pride in being a member of the healthcare team and being ‘the eyes of the sick’.

Dineo Leballo: BRad – Bachelor of Radiography

School of Healthcare Sciences

completed within the prescribed three years. Students also gain clinical experience after hours. This implies that they may have to practise during weekends and on public holidays such as Christmas, Easter and New Year's Day. It is important that this aspect of the training be approached with the appropriate attitude from the start.

Students have to register with the Health Professions Council of South Africa (HPCSA) before starting to practise as student radiographers. The Council sets certain requirements for academic knowledge and clinical experience to be gained during the student's training, and this is a prerequisite for registration as a qualified radiographer.

Personal characteristics of a radiographer include the genuine desire to help sick and injured patients. In the course of a day, many decisions regarding patient care are taken. Self-discipline and responsibility are essential to enable the student radiographer to deal with any situation. The radiographer should enjoy good health, since the work entails a lot of physical movement while supporting and assisting patients and manipulating the equipment.

Categories of radiography offered at the University of Pretoria

- **Diagnostic radiography**
The diagnostic radiographer is an essential member of the health team and is responsible for forming and capturing the diagnostic images of a patient referred by a medical practitioner for a specific radiographic procedure. X-rays are used to form the image on film. X-ray procedures are of varying complexity and range from simple skeletal examinations to sophisticated high-technology examinations where different imaging modalities are used. In the latter cases, X-rays and computers may be used to produce images. Fractures, brain tumours, haemorrhages and blood clots are only a few of the medical problems diagnosed by these sophisticated devices. Diagnostics is offered at both undergraduate and postgraduate level.
- **Radiotherapy and nuclear medicine**
Radiotherapy entails the use of high-energy radiation in the treatment of benign and malignant tumours. Nuclear medicine entails the administration of the radiopharmaceutical substance to a patient to demonstrate the anatomy and functioning of organs, as well as the physiology of certain diseases. The University of Pretoria offers Radiation Therapy and Nuclear Medicine at honours level. These categories of radiography are offered at tertiary hospitals and selected private healthcare centres.

Career opportunities

The qualified diagnostic radiographer may be employed by the following organisations:

- urban and rural hospitals
- private clinics and hospitals
- the South African National Defence Force
- mining companies
- private radiology practices
- educational institutions and training bodies
- specialised units, such as angiography, computer tomography, magnetic resonance and ultrasound
- companies supplying apparatus and equipment

Radiographers in all categories may also occupy managerial posts or establish their own private practices. Postgraduate study in each area may be undertaken, leading to a career path in academia as a lecturer and researcher.

For career progression in each category, there are opportunities to do master's and doctoral studies.

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BCur – Bachelor of Nursing

The Department of Nursing Science at the University of Pretoria started the first undergraduate training of nursing scientists in South Africa in 1956. The Department is therefore a pioneer in the nursing profession in South Africa, and trailblazing work is done to keep pace with new technology and changes in the profession. The Department of Nursing Science strives for excellence in its teaching and research programmes, and its focus is on the promotion of the intellectual, cultural and personal development of all its students. Both women and men may successfully follow the course to meet the health needs of the community. A considerable number of former University of Pretoria nursing scientists currently occupy managerial posts in South Africa.

Selection

Admission to the course is subject to departmental selection. Selection is based on academic merit, the NBT, the Value-added Questionnaire and a personal interview. Mathematics, Physical Science and Life Sciences are recommended subjects and might be useful during the study period. These subjects are not compulsory.

Description of the study programme

Being a nurse means being part of the large team of professional workers dedicated to rendering health services to the community. It requires being prepared to understand, accept and trust people whose way of life, beliefs, values and cultures may differ from one's own and to serve them and care for them with one's knowledge and personal aptitude. Nursing science equips students to serve others and enrich their lives. The name of the degree means "caring". The course covers four years of full-time study, and prepares students for the following career fields:

- **General nursing**
Caring for people in different situations, such as in hospitals, clinics and private practices.
- **Community nursing**
This is aimed at primary health. It includes the prevention of diseases and the promotion of health, the rendering of clinical nursing services and the rehabilitation of people in the general community.

School of Healthcare Sciences

▪ **Psychiatric nursing**

The emphasis is on the mental health of individuals, families and the community.

▪ **Midwifery**

In this field, the emphasis is on meeting the unique physical, psychological and mental needs of a woman and her baby in the family and the community.

Clinical learning experience is gained mainly at the Steve Biko Academic Hospital. Students are also placed with other health services for appropriate and extensive exposure to practical nursing. This entails working fixed hours during the semester and also spending certain holiday periods doing actual nursing. Students register with the South African Nursing Council (SANC) as student nurses.

Programme content

The syllabus consists of subjects that form the basis of nursing, namely those in social, biological and nursing sciences. The subjects in the various sciences are presented by experts at the University of Pretoria. A modular, outcomes-based approach is followed. Refer to the Yearbook for further information.

Career opportunities

Graduates can work in various hospitals and clinics in the community and also run private nursing practices. The government and the private sector offer a wide variety of opportunities. The following fields of nursing specialisation are available:

- general, medical and surgical nursing
- trauma nursing
- theatre nursing
- community nursing
- psychiatric nursing
- midwifery
- paediatric nursing
- neonatal nursing
- nursing management
- nursing education

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BCur(I et A) contact information

This programme provides professional nurses registered with the SANC the opportunity to obtain post-basic professional qualifications. It is offered through flexilearning.

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Email celia.filmalter@up.ac.za



My earliest memory of wanting to be a nurse stems back to reading a book in primary school about famous people who had made a difference in the world. My memory about that day is a bit fuzzy, I don't even remember the title of the book but I remember that I read about a woman who used to walk around her ward with a lamp in the night and check on her patients. This lady, who came

to be loved by her patients, became known as the lady with the lamp, Florence Nightingale. I most probably must have thought to myself, my goodness, I want to be like this woman. My passion for nursing grew as I watched the ladies in my family who are nurses. All three of them are very passionate about the various fields they have chosen to specialise in and it is no wonder that, when the time came, I chose nursing.

One of the greatest gifts one has as a student nurse is that you are introduced to the hospital working environment from your first year. For me this has been an amazing opportunity. I have met people from different walks of life, I have silently stood at the bedside of patients whose lives were hanging by a thread and said a prayer in my heart for them. I have seen brave children, women and men fighting for their lives. As a multi-disciplinary team, we sometimes fear a patient may not recover and even phone their families to come and say their goodbyes, only for those patients to walk out of the ward feeling much better a few weeks later.

I have the privilege of being taught by the best team of nurses I know. These ladies and gentlemen have taught me to aim very high. They have taught me as a BCur student to work towards the implementation of solutions in my chosen field of work instead of constantly seeing problems. Through them I have learned that nurses are leaders; we make or break the function of any hospital or health facility. I choose to be on the team that works towards leaving a positive mark.

This is a very rewarding profession that teaches one many life lessons such as patience, being conscientious and doing your absolute best even when nobody thanks or acknowledges your efforts.

Sanele Gambu: BCur - Bachelor of Nursing

General information

1. University of Pretoria campuses and contact information

Client Service Centre (CSC)

Tel +27 (0)12 420 3111

Email csc@up.ac.za

Website www.up.ac.za

Location

University of Pretoria, cnr Lynnwood Road and Roper Street, Hatfield, South Africa

Postal address

University of Pretoria, Private bag X20, Hatfield 0028, South Africa

GPS coordinates to campuses

Hatfield	S25° 45' 21" E28° 13' 51"
GIBS	S26° 07' 46.2" E28° 02' 46.788" (56 km from Hatfield Campus)
Groenkloof	S25° 46' 10" E28° 12' 34" (3.5 km from Hatfield Campus)
UP Sports Campus	S25° 45' 10" E28° 14' 46" (1.2 km from Hatfield Campus)
Mamelodi	S25° 43' 22" E28° 23' 56" (12 km from Hatfield Campus)
Onderstepoort	S28° 10' 54" E25° 38' 52" (22 km from Hatfield Campus)
Prinshof	S25° 43' 57" E28° 12' 10" (6 km from Hatfield Campus)

2. Admission requirements

The statutory minimum requirements for degree studies is a National Senior Certificate (NSC), with a minimum achievement level of 4 (50%–59%) in four recognised NSC 20-credit subjects from the designated subject list below:

- Accounting
- Agricultural Science
- Business Studies
- Consumer Studies
- Dramatic Arts
- Economics
- Engineering Graphics and Design
- Geography
- History
- Information Technology
- Languages*
- Life Sciences
- Mathematical Literacy
- Mathematics
- Music
- Physical Science
- Religion Studies
- Visual Arts

*Based on the languages used as medium of instruction at the University of Pretoria, it is advisable that students should have English and/or Afrikaans as a Home Language or as a First Additional Language, together with any other language of choice. Faculties and/or certain study programmes may impose additional requirements.

Prospective students in Grade 12 (final school-year) must use their final Grade 11 year mark (promotion mark) to apply. No Grade 12 marks will be considered for provisional admission. Please note that prospective students who have already left school should use their NSC/IEB* Certificate to apply. Also refer to "Higher Education South Africa" on page 11. Additional selection criteria are applicable in applications for selection programmes.

Provisional admission is granted on the results obtained in the final Grade 11 examination (promotion mark). Please note that the final Grade 12 results remain the determining factor with regard to admission. Also note that compliance with the minimum requirements does not necessarily guarantee admission to any study programme.

The calculation of an Admission Point Score (APS) is based on a candidate's achievement in any SIX recognised NSC 20-credit subjects (including subjects from the non-designated subject list, eg CAT, Tourism, Hospitality Studies and Civil, Electrical & Mechanical Technology, etc), by using the NSC seven-point rating scale. Life Orientation is a 10-credit subject and may not be used for calculating the APS. Life Orientation is also not a faculty-specific subject requirement.

*Independent Examination Board (IEB)

National Senior Certificate (NSC) seven-point rating scale

Achievement level	Description	Percentage
7	Outstanding achievement	80–100%
6	Meritorious achievement	70–79%
5	Substantial achievement	60–69%
4	Adequate achievement	50–59%
3	Moderate achievement	40–49%
2	Elementary achievement	30–39%
1	Not achieved	0–29%

National Benchmark Test (NBT)

The NBT is not compulsory for all study programmes. Please refer to the relevant study programmes in this brochure. Please note that the Academic Literacy Test does not replace the NBT.

Contact information

Tel +27 (0)21 650 3523

Website www.nbt.ac.za

3. Application for admission

- Applications open on 1 March of the year preceding the year of study. Completed application forms must reach the CSC before the closing date.
- We recommend that you apply online at www.up.ac.za/ apply. Once your application form has been processed, you will receive an eight-digit UP student number. You are also welcome to download an application form from the website.
- It is strongly recommended that you also indicate a second choice study programme on your application form. Refer to www.up.ac.za/admissioninfo. It is not advisable to apply for two selection programmes as your first and second choice. Selection programmes are study

General information

programmes with early closing dates and limited space and must preferably be indicated as first choice on your application form.

- A non-refundable application levy of R300 must accompany every application.
- The following documents must accompany your application:
 - A copy of your final Grade 11 examination report indicating your promotion mark
 - A copy of your ID or your birth certificate
- Faxed, scanned, or emailed application forms will not be accepted. Each student must complete only one application form.
- You may follow the progress of your application online via the UP Portal (Student Centre). Visit www.up.ac.za/portal.

4. Language policy and medium of instruction

In conducting its business, the University uses two official languages, namely English and Afrikaans. In formal education the medium of instruction is either English or Afrikaans, or both of these languages; provided that there is a demand and that it is academically and economically justifiable. However, it remains the student's responsibility to ascertain on an annual basis in which language a module and any further level of that module is presented. In respect of administrative and other services, a student has the right to choose whether the

University should communicate with him or her in English or Afrikaans. Where the University has the capacity, Sepedi is used as an additional language of communication.

5. Bursaries, awards and loans (financial aid)

University-managed bursaries and loans

Apply between 1 August and 30 September of the year preceding studies at www.up.ac.za/feesfunding. Please note that applicants for sports bursaries, should also complete an application form, which can be obtained from the Sports Centre, sportsinfo@up.ac.za, +27 (0)12 420 6060 or www.up.ac.za/sport.

University-managed awards

Learners do not apply for these awards. They are awarded automatically after registration. For the specific criteria, please refer to www.up.ac.za/feesfunding.

Other financial aid options

- Edu-loan: www.eduloan.co.za
- The Bursary Register:
 - Tel +27 (0)11 672 6559
 - Email slevin@mnet.co.za
 - www.gostudy.mobi
- www.bursary.hcifoundation.co.za

Achievement awards – new first-year students: 2015*

Guaranteed undergraduate achievement awards

Learners do not apply for the achievement awards below. These awards are awarded based on academic achievement.

Qualifying average percentage	Faculty of Natural and Agricultural Sciences	Faculty of Health Sciences	Other faculties
	Faculty of Engineering, Built Environment and Information Technology	Faculty of Veterinary Science	
75%–79.99%	R6 000	–	–
80%–89.99%	R15 000	R6 000	R15 000
90%–100%	R40 000	R20 000	R40 000

*Amounts will be adjusted for 2016.

Please note: The University of Pretoria reserves the right to amend award values without prior notice. Please refer to www.up.ac.za/feesfunding for the criteria applicable to the above achievement awards.

General information

6. Special offer to academic achievers

The special offer to academic achievers is based on average percentages obtained in the end examination of the final school year. This special offer may include guaranteed awards, placement in study programmes and/or residence placement. For more information on the University's special offer to new first-year students, visit www.up.ac.za/admissioninfo.

Guaranteed admission to a non-selection study programme of a student's first or second choice

Conditions

- Applications must be received on or before 1 May of the year preceding commencement of studies.
- The minimum requirements for admission to the chosen study programme must be met with the results achieved in the end examination of the final school-year.
- The minimum National Benchmark Test (NBT) requirements for the specific study programme must be met.

Please note that admission to selection study programmes cannot be guaranteed.

Placement in a residence of the University of Pretoria

75%–89.99%	90%–100%
<p>Consideration for placement in a residence of the University of Pretoria rests upon the following:</p> <p>The prospective student must:</p> <ul style="list-style-type: none"> apply before 1 May in the year preceding studies; have obtained an average of between 75% and 89.99% in the examination with which the student apply for admission to study at UP; and be provisionally admitted to a study programme. <p>Please take note that the academic average percentage is based on a calculation formula of the University of Pretoria.</p>	<p>Guaranteed placement in a residence of the University of Pretoria rests upon the following:</p> <p>The prospective student must:</p> <ul style="list-style-type: none"> apply before 1 May in the year preceding studies; have obtained a minimum average of 90% in the examination with which the student apply for admission to study at UP; and be provisionally admitted to a study programme. <p>Please take note that the academic average percentage is based on a calculation formula of the University of Pretoria.</p>

7. UP banking details

ABSA	Standard Bank
Branch: Hatfield	Branch: Hatfield
Branch code: 632005	Branch code: 011545
Account number: 214 000 0054	Account number: 012 602 604
Deposit Reference: Eight-digit student number	Deposit Reference: Eight-digit student number
For international transactions: SWIFT CODE: ABSAZAJCPT	

Please note:

- Always quote your eight-digit UP student number when making payments.
- Allow at least five working days for processing by your bank and retain the proof of payment (deposit slip).
- Do not fax your deposit slip to UP, unless specifically requested to do so. Faxing the deposit slip to UP will NOT reduce processing time at the University and will NOT allow same day services, especially during registration.

- For the Absa online banking page, see www.up.ac.za for help on setting up first time online banking. Search with "UNI" as beneficiary and choose the "students" option. This will reflect UP's bank account number 214 000 0054 when making a payment and will allow you to use your student number as reference.

8. Accommodation

Only a limited number of places are available in the University's residences. Placement in residences is based on academic achievement (APS) in Grade 11 and the date of your application. Consequently, you are strongly advised to apply for placement in a residence in March of the year preceding your studies. Please note that the demand for residence accommodation exceeds the availability and admission to a study programme can thus not guarantee placement in a residence. Guaranteed placement in a residence only applies to students who meet the minimum requirements of the UP special offer to academic achievers.

Application for placement in a residence is made on the application form for a study programme. Placement in a residence then takes place AFTER a prospective student has been provisionally admitted to a study programme. A prescribed reservation fee for residence place, is payable once you have been notified in writing that you have been placed in

General information

a residence. Please visit www.up.ac.za/admissioninfo or www.up.ac.za/accommodation.

Private accommodation

The University can unfortunately not provide accommodation to all applicants as the demand exceeds the available places. For more information please refer to www.up.ac.za/accommodation.

9. Security services

The Department of Security Services creates and maintains a 24-hour safe environment, provides access control on all campuses as well as 24 hour surveillance by the UP Operational Management Centre.

Contact information

24 hour UP Operational Manager

+27 (0)83 654 0476

24 hour UP Operational Management Centre

+27 (0)12 420 2310/2760

24 hour crisis line

+27 (0)80 000 6428 (toll-free)

10. International students

All non-South African citizens must report to the International Students Division in the Client Service Centre on the Hatfield Campus prior to registration. Non-South African citizens will have to submit proof of legal status in South Africa, as well as proof of adequate medical aid cover at the International Students Division in the Client Service Centre before they will be able to register.

Contact information

Tel +27 (0)12 420 3111

Email csc@up.ac.za

Website www.up.ac.za/ISD

Location Client Service Centre
Hatfield Campus

Supporting documents

All non-South African citizens will have to show their original documents and submit two photocopies of each of the documents listed below:

- The International Students Information form, completed and signed
- A valid passport or an ID (in the case of students with permanent residence in South Africa)
- A valid study permit endorsed for studies at the University of Pretoria or one of the following:
 - A study visa
 - An asylum-seekers transit visa
 - Refugee – Section 24 permit
 - A diplomatic visa

- Proof of medical aid cover (medical aid cover must be paid a year in advance, from January to December)

The above-mentioned documents must be submitted to an international consultant and the information must be captured before you can register.

Medical aid cover for study permit-holders

Non-South African citizens who are holders of study permits, or who wish to apply for a study permit must, in terms of South Africa's Immigration Act, have sufficient medical aid cover for the duration of their stay in South Africa. Non-South African citizens intending to study at the University of Pretoria can join one of the following medical aid schemes:

Momentum Health (Ingwe option)

Membership fees are payable in advance annually.

Tel +27 (0)12 671 8749 (Centurion office) or
+27 (0)86 010 2493

Email studenthealth@momentum.co.za

Website www.ingwehealth.co.za

BestMed Medical Scheme (Blueprint student option)

Membership fees are payable in advance annually.

Tel +27 (0)12 339 9800 or
+27 (0)86 000 2378 or
+27 (0)86 000 BEST

Fax +27 (0)12 323 4106 or
+27 (0)12 339 9900

Email lineyl@curemed.co.za

Higher Education South Africa (HESA)

A full or foreign conditional exemption certificate is a prerequisite and applicable to non-South African citizens and to students who do not have a South African National Senior Certificate (NSC) qualification or Independent Examination Board (IEB) qualification and who want to enrol for undergraduate studies at the University of Pretoria. This certificate can only be obtained from HESA.

Contact information

Tel +27 (0)12 481 2821

Fax +27 (0)12 481 2843/50

Email info@hesa.org.za

Website www.hesa.org.za

Location Unisa Sunnyside Campus
Building 3 Level 1
Cnr Rissik and Steve Biko Street
Sunnyside
Pretoria

General information

Admission Point Score (APS) conversion

The following tables can be used to convert your marks/symbols into an Admission Point Score (APS) when applying for studies at the University of Pretoria (UP).

Admission Point Score (APS) Conversion Table

APS (requirement level for subjects as well as overall APS)	NSC/IEB	SC HG M-score	SC SG M-score	HIGCSE NSSC HL	AS-Level	IB SL	IGCSE/ GCSE/ NSSC OL/ O-Level	IGCSE/ GCSE/ NSSC OL/ O-Level
							Grade 11*	Grade 12**
7	7 (80–100%)	A		1	A	7	A	
6	6 (70–79%)	B	A	2	B	6	B	
5	5 (60–69%)	C	B	3	C	5	C	A
4	4 (50–59%)	D	C	3	D	4	C	B
3	3 (40–49%)	E	D	4	E	3	D	C
2	2 (30–39%)	F	E			2	E	D/E
1	1 (0–29%)	G	F			1	F	F/G

* APS conversion for Grade 11 equivalent qualifications only and for conditional admission and selection purposes

** APS conversion for Grade 12 equivalent qualifications – not for final admission and must be taken together with Advanced Subsidiary Level and Advanced Level for exemption purposes

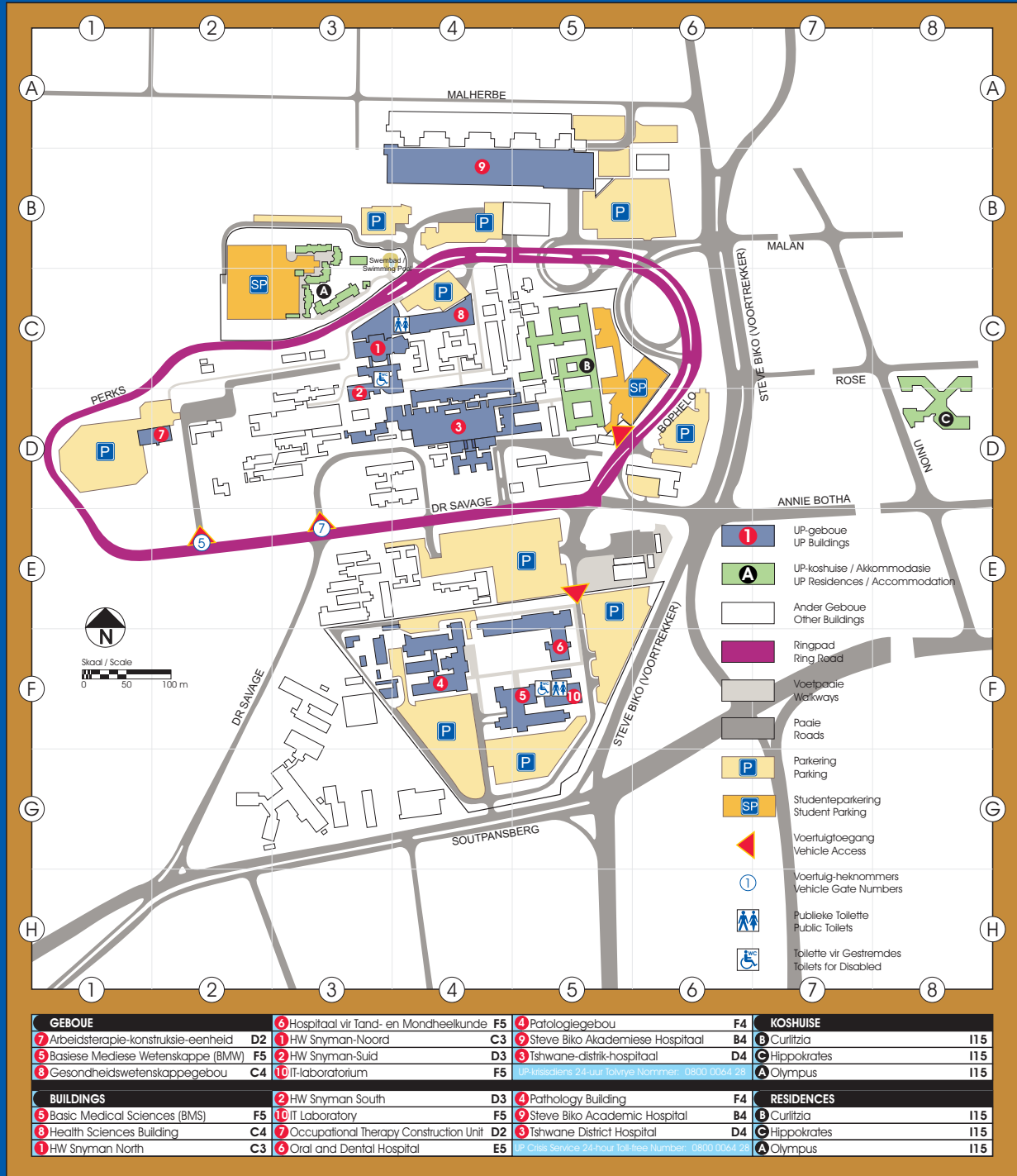
Admission Point Score (APS) Conversion Table only for Cambridge Advanced Level and IB Higher Level

APS		A-Level	IB HL
Required level for subjects	Required level for overall APS		
7	10	A	7
6	8	B	6
5	7	C	5
4	6	D	4
3	5	E	
2	4		
1	3		

NSC	National Senior Certificate (completed Grade 12 in and after 2008)
IEB	Independent Examination Board
SC HG	Senior Certificate Higher Grade (completed Grade 12 before 2008)
SC SG	Senior Certificate Standard Grade (completed Grade 12 before 2008)
HIGCSE	Higher International General Certificate of Secondary Education
A-Level	Advanced Level
AS-Level	Advanced Subsidiary Level
IB	International Baccalaureate Schools (Higher Levels and Standard Levels)
IGCSE	International General Certificate of Secondary Education
GCSE	General Certificate of Secondary Education
NSSC	Namibia Senior Secondary Certificate
O-Level	Ordinary Level

Prinshof Campus map

Prinshofkampus / Prinshof Campus / Khamphase ya Prinshof
 S 25° 43' 57" E 28° 12' 10"



Kaart soos bygewerk in September 2013

Vrywaring: Alhoewel elke moontlike poging aangewend is om te verseker dat dit wat op hierdie kaart verskyn die jongste akkurate inligting is, moet gebruikers nie aanvaar dat dit altyd die geval is nie. Die Universiteit van Pretoria gee nie voor, of waarborg nie uitdruklik of by implikasie, dat al die inligting op die kaart akkuraat is nie. Die Universiteit van Pretoria, sy werknemers, amptenare, verskaffers, agente en/of verteenwoordigers kan nie aanspreeklik gehou word vir enige verlies of skade wat deur die gebruiker gely word, ongeag daarvan of dit direk, indirek of daaruit voortvloeiend is, of vir enige uitgawes van enige aard wat regstreeks of onregstreeks voortspruit uit die feit dat die gebruiker op die kaart staatgemaak het nie.

Map updated September 2013

Disclaimer: While every effort has been made to ensure that the information provided on this map is current and accurate, users should not assume that this is always the case. The University of Pretoria makes no representations or warranties of any kind, whether express or implied, regarding the accuracy of the map. The University of Pretoria, its employees, officials, suppliers, agents and/or representatives shall not be liable for any loss or damage suffered by the user, whether direct, indirect or consequential, or for any expense of any nature whatsoever resulting directly or indirectly from reliance on the map.